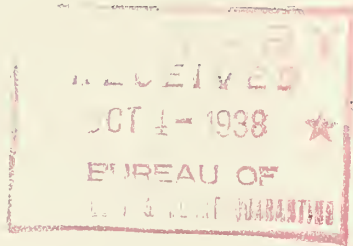


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THE INSECT PEST SURVEY  
BULLETIN



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Volume 18

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BUREAU OF  
ENTOMOLOGY AND PLANT QUARANTINE  
UNITED STATES  
DEPARTMENT OF AGRICULTURE  
AND  
THE STATE ENTOMOLOGICAL  
AGENCIES COOPERATING



# INSECT PEST SURVEY BULLETIN

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## Hessian Fly Survey at Harvest-time, 1938

Field surveys made by the Bureau of Entomology and Plant Quarantine field stations at Manhattan and Wichita, Kans., Lafayette, Ind., and Carlisle, Pa., and the State agricultural experiment stations of Illinois, Ohio, Oklahoma, and Nebraska indicate that hessian fly populations are from low to moderate in Nebraska, Kansas, Oklahoma, Missouri, and Illinois, the southern half of Indiana, central Ohio, Kentucky, Tennessee, western and south-central Pennsylvania, Maryland, Delaware, and Virginia. However, there are menacing populations of flies in local fields and areas in most of these States or districts.

Marked increase of the hessian fly has occurred throughout the northern half of Indiana and the northwestern counties of Ohio. Adherence to the safe seeding dates is particularly advisable for these districts.

Slight-to-moderate increases of fly infestations are recorded for central Ohio, eastern and northern Pennsylvania, northwestern and south-central Virginia, and north-central North Carolina, with moderate-to-severe infestations likely to occur in the fall of 1938 in Pennsylvania and North Carolina.

The summarized data below and the accompanying map indicate more fully the regions covered by the survey and the general trend of fly infestations. A field sample in the survey usually consisted of 50 wheat stems.

Area	Fields sampled	Stems infested		
		Average	Maximum	Minimum
	Number	Percent	Percent	Percent
Nebraska:				
Southwestern -----	3	0	0	0
South-central -----	27	0	2	0
Southeastern -----	84	0	6	0
Kansas:				
Northwestern -----	18	0	0	0
North-central -----	40	0	4	0
Northeastern -----	45	3	56	0
South-central -----	40	1	26	0
Southeastern -----	37	5	28	0
Oklahoma:				
Northwestern -----	19	1	2	0
North-central -----	28	0	2	0
Northeastern -----	37	1	10	0
Missouri:				
Northwestern -----	19	1	2	0
North-central -----	28	0	2	0
Northeastern -----	37	1	10	0
Illinois: <sup>1/</sup>				
Western, central, and eastern --	--	7	--	--
Southern -----	--	2	--	--
Michigan:				
Southwestern -----	16	3	14	0
South-central -----	15	23	52	0
Central (south) and southeast- ern -----	17	1	2	0
Indiana:				
Northern and central (north) --	162	22	86	0
Eastern, central (south), southern, and western -----	189	5	30	0
Southwestern -----	42	11	46	0

<sup>1/</sup> Mostly from survey by State entomologists.

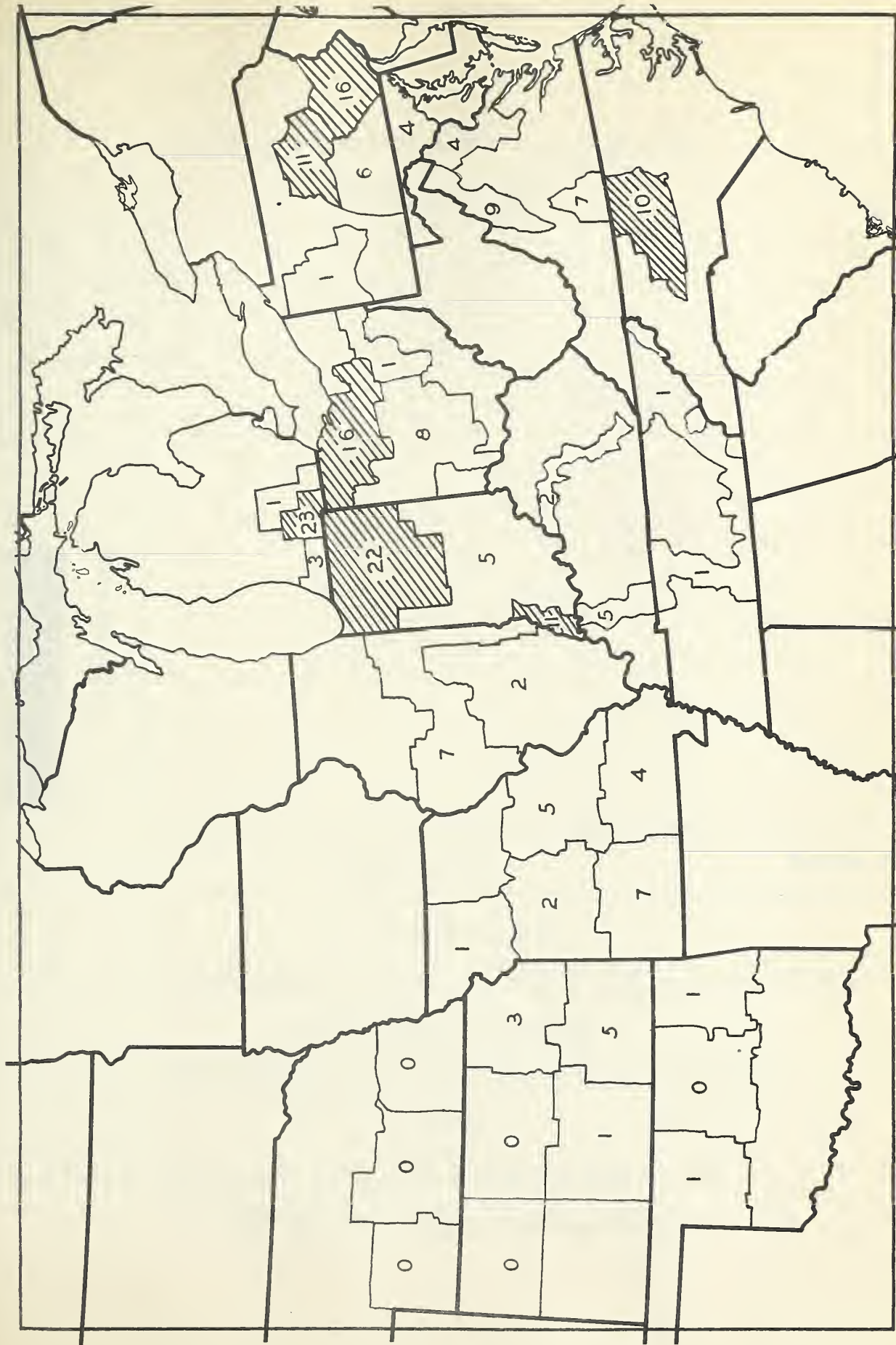
Area	Fields sampled Number	Stems infested		
		Average Percent	Maximum Percent	Minimum Percent
Ohio <sup>1/</sup>				
Northwestern, north-central and: central (north) -----	2/145	16	--	--
Western and central (south) ---	2/141	8	--	--
East-central -----	2/ 50	1	--	--
Kentucky:				
Western -----	25	5	26	0
East-central -----	34	2	18	0
Tennessee:				
West-central -----	54	1	28	0
Eastern -----	67	1	16	0
Pennsylvania:				
Western -----	15	1	6	0
North-central -----	20	11	40	0
South-central -----	35	6	58	0
Eastern -----	25	16	90	0
Delaware -----	10	6	30	0
Maryland:				
Western -----	25	4	24	0
Eastern -----	15	4	10	0
Virginia:				
Northwestern -----	25	9	42	0
Northeastern -----	30	4	12	0
South-central -----	15	7	40	0
North Carolina:				
North-central -----	40	10	54	0

<sup>1/</sup> Mostly from survey by State entomologists.

<sup>2/</sup> Approximate.







Numbers indicate percentage of infestation. Crosshatching indicates areas of moderate to severe infestation

